

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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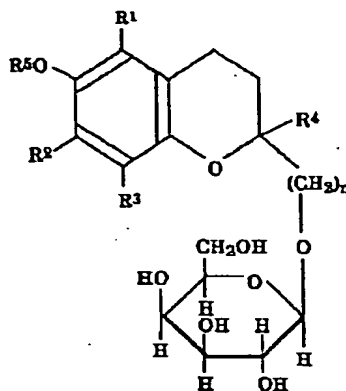
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APPLICANT : CCI CORP;

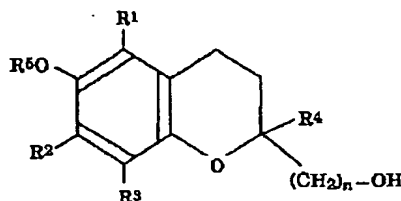
INVENTOR : KUNIEDA TSUTOMU;

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C09K 15/06 C12P 19/58 C12P 19/60 //  
A23L 3/3562

TITLE : CHROMANOL GLYCOSIDE, ITS  
PRODUCTION AND ANTIOXIDANT  
USING THE SAME



I



II

ABSTRACT : PROBLEM TO BE SOLVED: To produce a new chromanol glycoside, excellent in solubility in water and useful as an antioxidant, etc., for cosmetics, medicines, foods, etc., by reacting a  $\beta$ -galactosidase with a solution containing chromanol and a  $\beta$ -galactosyl saccharide compound.

SOLUTION: This new chromanol glycoside is represented by formula I [ $R^1$  to  $R^4$  are each H or a lower alkyl;  $R^5$  is H, a lower alkyl or a lower acyl; H atoms of the hydroxyl groups in the saccharide residue may be substituted with a lower alkyl group or a lower acyl group; (n) is an integer of 0-4] and is excellent in solubility in water and useful as an antioxidant, etc., for foods, cosmetics, medicines, etc. The glycoside is obtained by reacting a  $\beta$ -galactosidase with a solution containing a 2-substituted alcohol represented by formula II and a  $\beta$ -galactosylsaccharide compound.

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